

**Point-slope Form**

Sheet 5

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in point-slope form.

1)  $(-5, 3)$  and slope  $m = -7$

2)  $(-2, 1)$  and slope  $m = 8$

3)  $(8, -2)$  and slope  $m = -5$

4)  $(-3, -4)$  and slope  $m = \frac{5}{4}$

5)  $(-9, 5)$  and slope  $m = 6$

7)  $(-6, 0)$  and slope  $m = 1$

9)  $(-7, -8)$  and slope  $m = 0$

10)  $(4, -9)$  and slope  $m = -3$

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1)  $(-5, 3)$  and slope  $m = -7$

2)  $(-2, 1)$  and slope  $m = 8$

$$y - 3 = -7(x + 5)$$

$$y - 1 = 8(x + 2)$$

3)  $(8, -2)$  and slope  $m = -5$

4)  $(-3, -4)$  and slope  $m = \frac{5}{4}$

$$y + 2 = -5(x - 8)$$

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5)  $(-9, 5)$  and slope  $m = 6$

$$y - 5 = -2(x + 9)$$

7)  $(-6, 0)$  and slope  $m = 1$

$$y = -\frac{9}{5}(x + 6)$$

$$y - 4 = x$$

9)  $(-7, -8)$  and slope  $m = 0$

10)  $(4, -9)$  and slope  $m = -3$

$$y + 8 = 0$$

$$y + 9 = -3(x - 4)$$